

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc

Weather: Sunny, 60s- 70s

Report No.: 010

Date: 11/14/16

Progress of work:

Oversight Activities: A.Day onsite to provide oversight of work at Solutia site for the project “Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 pipefitters (Josh Hanna and Chris Wright), 1 operator (Steve Flowers – ½ day), 1 Hayden (Dave Hirschl – ½ day). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was frosty conditions.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- GRP placed 4” and 2” lines in trench north of future metering house
- GRP welded 1.5” stubups at pump locations
- GRP welded 4” and 2” stubups at metering house location

Equipment:

- Doosan Excavator
- Office Trailer/Conex
- 2 port-o-potties w/ 2 sinks
- HDPE Tracked Welder unit
- Hayden Work Truck
- GRP Work Truck
- Plate tamper
- Case Skidsteer
- Roller
- Pipetamer

Materials:

- 1 roll - 4” HDPE DR-11
- 2 roll – 1.5” HDPE DR-11
- 1-roll – 2” HDPE DR-11
- Various HDPE fittings
- Various metal pipe fittings
- 1 Roll Propex GEOTEX 104F
- 24’ of 12” galvanized culvert

AECOM

Dumpsters: Rolloff Box #20411, #20856, #20474, #20957, #20500, #20186 (empty), #20923, #20874

Notes and Discussions:

- A. Day reviewed backfill specifications with GRP and Hayden.
- A. Day suggested to GRP/Hayden the use of Tyvek, booties, and gloves when in areas of impacted soil.
- A. Day informed GRP of the importance of checking soil piles for plastic coverage.
- A. Day discussed with GRP waiving the requirement for waiting a minimum 24 hours after filling piping with water for hydrotesting (as stated in specs). A. Day explained this should be formalized in an email but will likely be waived.
- Collected PID readings at 12:15 along trench and up and down Queeny Avenue. No readings above 0.0 ppm.
- Hayden and operator worked ½ day as they were not needed except to drag 2" and 4" pipe into the trench.

Photographs:

1. Looking north at 1.5" stubups at future metering house location
2. Completed and capped 2" and 4" lines at manhole – prepared for hydrotesting
3. Looking north at 2" and 4" lines in trench
4. Looking south at 2" and 4" lines in trench

A. Day offsite at 12:30 pm.

Signed by:

A handwritten signature in blue ink, appearing to be 'M. Day', is written over a faint horizontal line.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc

Weather: Sunny, 60s- 70s

Report No.: 011

Date: 11/15/16

Progress of work:

Oversight Activities: A.Day onsite to provide oversight of work at Solutia site for the project “Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 pipefitters (Josh Hanna and Chris Wright), GRP QA/QC Kenny Hudson (1/2 day). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was working in and around trenches.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- GRP performed hydrostatic tests on all three of the 1.5” lines running from metering house to pumps. All lines passed.

Equipment:

- Doosan Excavator
- Office Trailer/Conex
- 2 port-o-potties w/ 2 sinks
- HDPE Tracked Welder unit
- Hayden Work Truck
- GRP Work Truck
- Plate tamper
- Case Skidsteer
- Roller
- Pipetamer

Materials:

- 1 roll - 4” HDPE DR-11
- 2 roll – 1.5” HDPE DR-11
- 1-roll – 2” HDPE DR-11
- Various HDPE fittings
- Various metal pipe fittings
- 1 Roll Propex GEOTEX 104F
- 24’ of 12” galvanized culvert

Dumpsters: Rolloff Box #20411, #20856, #20474, #20957, #20500, #20186 (empty), #20923, #20874

AECOM

Notes and Discussions:

- A. Day reviewed layout of piping within shed. Settled on 24" between centers of capillary, secondary and primary piping in metering house. This was to avoid 4" x 4" skids on base of metering house.
- GRP will enter the flooring with the 2" and 4" piping approximately 1 foot off the back wall. If GRP were to do 6", as stated in the plans, the 7 foot run of pipe would end on a floor joist. This also gives some room behind the piping for access.
- GRP's Kenny Hudson (QAQC) to assist with hydrostatic testing.
- AECOM and GRP discussed hydrostatic testing protocol. AECOM informed GRP that gauges used during testing do not need to be NIST certified. Standard gauges are acceptable. AECOM informed GRP that thrust blocks can be poured AFTER hydrostatic testing has occurred.
- GRP was unable to hydrotest the 2" and 4" lines due to improper equipment/parts. Parts will be onsite 11/17 AM to complete the test.
- PID readings were collected at 14:30. No readings detected above 0.0 ppm along Queeny avenue or near the trench.
- AECOM explained to GRP that holes for piping entering the metering house floor do not need to be the exact diameter of the piping. Hole size can be increased to facilitate placement of metering house.
- Steve Smith of Solutia onsite during afternoon. Discussions included:
 - AECOM should obtain bid for Waste Management to haul impacted soil to disposal facilities in Alabama and Michigan
 - A. Day will discuss with Hayden their plan for dealing with potentially overweight rolloff containers
 - PCB labelling of rolloff boxes
- A. Day suggested to GRP to check with electrician about making sure parts are obtained before electrical work commences.

Photographs:

1. Looking north at 4" and 2" stubups at future metering house location
2. Looking northeast at stubups for 1.5" pipes near pump locations

A. Day offsite at 3:30 pm.

GRP offsite at 3:30 pm.

Signed by:



AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc

Weather: Sunny, 70s

Report No.: 012

Date: 11/16/16

Progress of work:

Oversight Activities: A. Day onsite to provide oversight of work at Solutia site for the project “Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 pipefitters (Josh Hanna and Chris Wright), GRP QA/QC onsite for hydrotesting. Lowry Electric onsite briefly to go over project (Andy Mcpherson and Matt Brand). Hayden onsite briefly in afternoon (Dave Hirschl). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was snakes/wild animals.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- GRP performed hydrostatic tests on 2” and 4” lines running from metering house to manhole. All lines passed.
- GRP ran tracer wire for 1.5”, 2” and 4” lines.
- GRP marked out holes to drill in sewer manhole.
- Lowry electric was onsite to go over their plan for the project.
- Hayden onsite to see site progress and to plan for the remainder of their project scope.

Equipment:

- Doosan Excavator
- Office Trailer/Conex
- 2 port-o-potties w/ 2 sinks
- HDPE Tracked Welder unit
- Hayden Work Truck
- GRP Work Truck
- Plate tamper
- Case Skidsteer
- Roller
- Pipetamer

Materials:

- 1 roll - 4” HDPE DR-11
- 2 roll – 1.5” HDPE DR-11
- 1-roll – 2” HDPE DR-11

AECOM

- Various HDPE fittings
- Various metal pipe fittings
- 1 Roll Propex GEOTEX 104F
- 24' of 12" galvanized culvert

Dumpsters: Rolloff Box #20411, #20856, #20474, #20957, #20500, #20186 (empty), #20923, #20874

Notes and Discussions:

- A. Day discussed with GRP the need for all HDPE lines to be a minimum of 4" apart in the trenches. Currently the pipes are overlapping at the Weisse property line and in the trench from metering house to the pumps. GRP will provide the proper spacing once Hayden is onsite.
- Tim Grove of GRP asked about as-built requirements. AECOM will discuss and respond.
- Lowry asked several questions (below). AECOM will discuss.
 - Lowry wants to stub up their conduit outside of the metering house and then go in with an LB to avoid added difficulty during shed placement.
 - Lowry believes they do not need to install explosion proof seal-off fittings for the wiring from disconnect switches to metering house as the conduit does not enter a vault as shown on the drawings. Lowry believes a standard fitting will suffice.
- PID readings were collected at 07:30 and 13:00. No readings detected above 0.0 ppm along Queeny avenue or near the trench.
- A. Day and N. McNurlen (AECOM) pulled the primary, secondary, and capillary pumps to assure pumps would be easily accessed when electricians need access. AECOM performed maintenance on the pumps, measured piping/electrical wiring for possible replacement, and reinstalled them.
- A. Day will discuss attachment of tracer wires to piping with GRP on 11/17 before backfill.

Photographs:

1. Looking north at partially completed tracer wire for 1.5" lines and overlapping 1.5" piping.

A. Day offsite at 2:30 pm

Signed by:



AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc

Weather: Sunny, 70s

Report No.: 013

Date: 11/17/16

Progress of work:

Oversight Activities: A.Day onsite to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 pipefitters (Josh Hanna and Chris Wright), 1 operator (Steve Flowers), 2 laborers (Damon Williams, Henry Poole), 1 electrician (Lowry Andy Mcpherson). 1 Hayden (Dave Hirschl). A. Day provided construction oversight. A.Day not onsite from 08:30 to 10:15.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was working in and around trenches.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- GRP cored holes in sewer manhole.
- GRP taped tracer wire in place and spaced out piping for backfill.
- Hayden backfilled north trench for 2" and 4" with one 6" lift and compacted (sand in trench along queeny and impacted zone, excavated soil for section south of Weisse property).
- Hayden backfilled trench and compacted from metering house to pumps with two 6" lifts of excavated soil.
- Electrician installed 1" and 1.5" conduits in trench from metering house to pumps.
- Electrician installed 1.5" conduit in trench from existing power box to metering house.

Equipment:

- Doosan Excavator
- Office Trailer/Conex
- 2 port-o-potties w/ 2 sinks
- HDPE Tracked Welder unit
- Hayden Work Truck
- GRP Work Truck
- Plate tamper
- Case Skidsteer
- Roller
- Pipetamer

Materials:

- 1 roll - 4" HDPE DR-11
- 2 roll – 1.5" HDPE DR-11

AECOM

- 1-roll – 2" HDPE DR-11
- Various HDPE fittings
- Various metal pipe fittings
- 1 Roll Propex GEOTEX 104F
- 24' of 12" galvanized culvert

Dumpsters: Rolloff Box #20411, #20856, #20474, #20957, #20500, #20186 (empty), #20923, #20874

Notes and Discussions:

- A. Day discussed with Hayden plan for dealing with potentially overfilled rolloff boxes. Hayden explained they would have Midwest Sanitation out on Monday to evaluate boxes and would transfer soil into empty rolloffs if necessary. Hayden did not appear to want to pay for this. A. Day informed them Hayden (Ricky Smith) stated he had overfilled the boxes. Solutia/AECOM did not direct Hayden to overfill the boxes.
- GRP attempted to use the Linkseal gaskets at the manhole but they did not seal as the holes were cored 1" too large. GRP will obtain another Linkseal gasket designed to fill additional annular space. The part should arrive on Monday.
- A. Day discussed with Lowry it was OK to stubup conduit outside of the metering house, assuming they were within 6" of the metering house outer wall.
- A. Day discussed with Lowry it was OK to remove the explosion proof seal was necessary assuming this was in accordance with NEC.
- Hayden explained to GRP they needed to have density testing scheduled for Monday for the pad.
- N. McNurlen onsite with Jarrett Industries to clean out primary, secondary, and capillary wells/pumps. Wells were cleaned and pumps reinstalled.
- A. Day collected PID readings along Queeny avenue and up/down trenching. No readings were observed above 0.0 ppm.

Photographs:

1. 4" and 2" piping entering manhole (these Linkseals do not fit and will be replaced)
2. Looking south at sand backfill above 2" and 4" pipes
3. Looking north durign sand backfill and pipe spacing
4. Looking south along trench towards future metering house (first lift of backfill above piping)
5. Looking east at conduit runs to pumps
6. Looking north at conduit run from existing power box to future metering house.

A. Day offsite at 3:30 pm

Signed by:



AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc

Weather: Sunny, 70s

Report No.: 014

Date: 11/18/16

Progress of work:

Oversight Activities: A. Day onsite to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 1 pipefitters (Chris Wright), 2 laborers (Damon Williams, Henry Poole), 1 Hayden (Dave Hirschl). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was thunderstorms.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Hayden backfilled and compacted additional 6” lift along Queeny avenue (now 1 foot above piping).
- Hayden backfilled and compacted additional 6” lift and two 12” lifts to close impacted section of trench for the weekend before rainfall . Final 12” lift was CA-6.
- GRP poured thrust blocks for 4” and 2” pipes at stub-ups at metering house and at >90 degree bend at Queeny avenue.
- GRP placed utility warning tape in trench along Queeny avenue and south through Weisse property. Tape was placed on outer edges of trench 1 foot above piping.

Equipment:

- Doosan Excavator
- Office Trailer/Conex
- 2 port-o-potties w/ 2 sinks
- HDPE Tracked Welder unit
- Hayden Work Truck
- GRP Work Truck
- Plate tamper
- Case Skidsteer
- Roller
- Pipetamer

Materials:

- 1 roll - 4” HDPE DR-11
- 2 roll – 1.5” HDPE DR-11
- 1-roll – 2” HDPE DR-11

AECOM

- Various HDPE fittings
- Various metal pipe fittings
- 1 Roll Propex GEOTEX 104F
- 24' of 12" galvanized culvert

Dumpsters: Rolloff Box #20411, #20856, #20474, #20957, #20500, #20186 (empty), #20923, #20874

Notes and Discussions:

- Today was a half day of work due to rainout at 1130am.
- Hayden placed 12" lifts in area of impacted soil to close the trench before rainfall and the weekend. This section will require additional mounding of CA-6 to account for minor settling. Only impacted area not closed is corner at Queeny Avenue.
- Did encounter some odors when plastic was removed and impacted area of trench backfilled. Collected PID readings up and down Queeny avenue and near the trench at 08:00. No readings were observed above 0.0 ppm.

Photographs:

1. Looking east along Queeny trench with utility warning tape.
2. Looking north along trench (impacted section) with utility warning tape and 6" compacted above tape.
3. Thrust block at future metering house.
4. Thrust block at bend in trench at Queeny avenue.
5. Final compaction of CA-6 layer of impacted section of trench.

A.Day offsite at 12:30 pm

Signed by:



AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc.

Weather: Sunny, 50s

Report No.: 015

Date: 11/21/16

Progress of work:

Oversight Activities: A. Day onsite to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove – AM only), 1 pipefitter (Chris Wright), 2 laborers (Damon Williams, Henry Poole), 1 Hayden (Dave Hirsch), 2 electricians (Andy McPherson and Matt Brand), 1 operator (Steve Flowers). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was working in and around trenches.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Hayden backfilled and compacted additional 6" lifts along Queeny avenue. Last 12" was CA-06. All of trench along Queeny is backfilled except for last 10' to the manhole.
- Electricians stubbed up electrical conduit at the metering house, pump locations, and existing power box location.
- GRP laid utility warning tape at corner on Queeny, south from Weisse property to the metering house, and from the metering house towards the pumps.
- Hayden removed 2 additional fence posts east of the future metering house.
- Hayden backfilled and compacted area beneath metering house with 6" lifts up to original grade.
- GRP installed Linkseal gaskets (enlarged size) on the 4" and 2' pipes entering the manhole.

Equipment:

- Doosan Excavator
- Office Trailer/Conex
- 2 port-o-potties w/ 2 sinks
- HDPE Tracked Welder unit (offsite today)
- Hayden Work Truck
- GRP Work Truck
- Plate tamper
- Case Skidsteer
- Roller
- Pipetamer

Materials:

- 1 roll - 4" HDPE DR-11
- 2 roll – 1.5" HDPE DR-11

AECOM

- 1-roll – 2" HDPE DR-11
- Various HDPE fittings
- Various metal pipe fittings
- 1 Roll Propex GEOTEX 104F
- 24' of 12" galvanized culvert
- 2 loads CA-6

Dumpsters: Rolloff Box #20411, #20856, #20474, #20957, #20500, #20186, #20923, #20874, #20137

Notes and Discussions:

- A. Day discussed with Hayden the trench specs and the needs for 6" lifts with 3 passes of compaction during each lift.
- A. Day discussed with GRP the need for utility warning tape in trench 1 foot above installed utility.
- Midwest Sanitation onsite 08:15 to 10:30 to assist transfer of soil in rolloff boxes that were overfilled. Approximately half were overfilled per Midwest. This took track hoe operated ~2 hours to complete. A. Day did note the liner was ripped in at least 1 box during soil transfer.
- A. Day discussed with Hayden the need to not drop impacted soil on the ground during soil transfer from rolloff to rolloff.
- Did encounter some odors when transferring impacted soil in rolloff boxes. Collected PID readings up and down Queeny Avenue and near the loading area at 10:00. No readings were observed above 0.0 ppm.
- A. Day labelled final rolloff (#21037) with PCB sticker.

Photographs:

1. Looking east along Queeny at backfill
2. Photo of soil transfer operation
3. Looking northeast at backfilled trench
4. Looking east at backfilled trench
5. Looking south at backfilling of future metering house location
6. Looking east at backfilled of future metering house location
7. Existing power box with conduit stub up
8. Stub ups of electrical conduit at pump location
9. Final Linkseals installed at manhole for 2" and 4" pipes
10. Original grade restored at future metering house location

A. Day offsite at 3:30 pm

Signed by:



AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Report No.: 016

Contractor: GRP, Inc.

Date: 11/22/16

Weather: Sunny, 50s

Progress of work:

Oversight Activities: A. Day onsite to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 1 pipefitter (Chris Wright), 2 laborers (Damon Williams, Henry Poole), 1 Hayden (Dave Hirschl), 1 operator (Steve Flowers), 1 Geotechnology (Rusty Ray). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was working around heavy equipment.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Hayden backfilled and compacted last 10 feet of trench at manhole. Hayden backfilled and compacted 6" lifts (first two lifts sand, last two lifts CA-6, remaining material was native material)
- Hayden put down 4 lifts (first lift 3", rest of lifts were 6" each) of CA-6 for the pad for the metering house. The first lift was placed to level out the area.
- Hayden installed geofabric above the 3" lift of gravel at a dimension of 32' x 32'. Hayden overlapped the fabric 1 foot at seams.
- Hayden continued backfilling and compacting 6" lifts south from the Wiese property line towards the metering house.
- Hayden used the roller on the section of backfilled trench in the Wiese parking lot.

Equipment:

- Doosan Excavator
- Office Trailer/Conex
- 2 port-o-potties w/ 2 sinks
- Hayden Work Truck
- GRP Work Truck
- Plate tamper
- Case Skidsteer
- Roller (Large)
- Roller (Small)
- Pipetamer

Materials:

- Various metal pipe fittings

AECOM

- 24' of 12" galvanized culvert
- 2 loads CA-6

Dumpsters: Rolloff Box #20411, #20856, #20474, #20957, #20500, #20186, #20923, #20874, #20137

Notes and Discussions:

- A. Day discussed the camlock fittings that will make the connection from the pump lines to the newly installed 1.5" lines. GRP plans to provide these fittings.
- A. Day discussed the transducer mounts with GRP. GRP stated the transducers should arrive on 11/23 and will check to see if the mounts have been provided.
- Hayden plans to install 24' of culvert once the pad and roadway have been installed. Hayden will use track hoe to remove gravel and place culvert.
- Hayden was unable to make compaction on their second lift (<90% compaction). Moisture was added and passing lifts were achieved (>95% compaction). Moisture added to the CA-6 pile and to 6" lifts.
- Hayden stated they will plan to come back a month or so after the project is complete to dress up any seeding issues, settling trench areas, etc.
- Steve Smith discussed with A. Day working this Friday. Also, S. Smith asked for a proposal from AECOM to haul/dispose of the 9 rolloff boxes of impacted soil. A. Day started the process for the proposal.
- Hayden had a smaller roller delivered today to access areas between piping stubups on the pad.
- Geotechnology will provide testing reports to Hayden.
- A. Day collected PID readings at 0800 along Queeny Avenue. No readings above 0.0 ppm detected.

Photographs:

1. Looking at compaction of sand at manhole location.
2. Looking north at geofabric installation.
3. Compaction of pad for metering house.

A. Day offsite at 3:30 pm

Signed by:



AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc.

Weather: Cloudy, 50s

Report No.: 017

Date: 11/23/16

Progress of work:

Oversight Activities: A. Day onsite to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 laborers (Damon Williams, Henry Poole), 1 Hayden (Dave Hirschl), 1 operator (Steve Flowers), 2 Electricians (Andy McPherson, Matt Brand), 1 Geotechnology (Rusty Ray). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was working in wet/slippery conditions.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Hayden put down the remaining 4 lifts (6" each) of CA-6 for the pad for the metering house. Final elevation of pad was 410.2 feet. Some "dressing up" of the pad will be required once metering house is set.
- Hayden installed Geofabric underneath roadway.
- Hayden installed 24' long, 12" diameter culvert.
- Hayden installed CA-6 roadway ~45' to the south from the metering house location.
- Lowry set one 4"x4" post for each pump disconnect (total of three).
- GRP laid out location for metering house.

Equipment:

- Doosan Excavator
- Office Trailer/Conex
- 2 port-o-potties w/ 2 sinks
- Hayden Work Truck
- GRP Work Truck
- Plate tamper
- Case Skidsteer
- Roller (Large)
- Roller (Small)
- Pipetamer

Materials:

- 24' of 12" galvanized culvert
- 8 loads CA-6

AECOM

Dumpsters: Rolloff Box #20411, #20856, #20474, #20957, #20500, #20186, #20923, #20874, #20137

Notes and Discussions:

- Discussed with GRP the need for the vents on the 4" and 2" lines to be inside the building, not outside. The specialty flanges required to allow for this will delay the project completion date. A. Day suggested to GRP finishing with the valves outside, but coming back once the parts are in and installing them indoors. While the valves are designed to be indoor/outdoor, the plans state the valves are indoors. Additionally, it will add difficulty when servicing the valves if outdoors. A. Day explained GRP will need to formally submit this.
- Discussed with Hayden they needed to install 45' of roadway starting at the end of the 20' x 20' pad per the plans.

Photographs:

1. Looking east at 3 installed 4x4 posts
2. Looking west at installation of geofabric for roadway extension
3. Looking south at culvert installation
4. Final elevation (410.2' AMSL) for 20' x 20' pad.

A. Day offsite at 3:30 pm

Signed by:

A handwritten signature in blue ink, appearing to be 'A. Day', written over a horizontal line.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc.

Weather: Cloudy, 50s

Report No.: 018

Date: 11/25/16

Progress of work:

Oversight Activities: A. Day onsite to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 laborers (Damon Williams, Henry Poole), 1 Hayden (Dave Hirschl), 1 operator (Steve Flowers). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was Holiday safety.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Hayden completed backfilling and compacting 6” lifts in the trench from the metering house to the pumps. Hayden laid utility warning tape.
- Hayden removed Jersey barriers from Queeny avenue.
- Hayden dug two 12” deep, 8” wide trenches from electrical stubups at pumps to 4”x4” posts.
- Hayden back dug and cleaned up property south Wiese and north of metering house.
- Hayden installed 36” x 6” gravel walkway from metering house pad to Wiese lot.
- Hayden removed construction fencing and barricades as trenches are now backfilled.
- Hayden back dug and cleaned up property east of metering house to drain to the east.

Equipment:

- Doosan Excavator
- Office Trailer/Conex
- 2 port-o-potties w/ 2 sinks
- Hayden Work Truck
- GRP Work Truck
- Plate tamper
- Case Skidsteer
- Roller (Small)

Materials:

- Various metal pipe fittings
- 2 loads CA-6
- 3 EPG stand alone, NEMA 4x non metallic enclosure, pump start/stop relay
- 1 EPG autodialer

AECOM

- 3 start winding controls
- 3 EPG transducer mounts
- 3 LT05X125P level sensors
- 3 badger 2.5" M-2000 flowmeters

Dumpsters: Rolloff Box #20411, #20856, #20474, #20957, #20500, #20186, #20923, #20874, #20137

Notes and Discussions:

- A. Day and Tim Grove went over parts received on 11/23. It does not appear the Main PLC panel was ordered. GRP is tracking down a lead time for this item.
- Hayden stated they would plan to have a load of rock and load of dirt for a 1-day call back to dress up the site and any trench settlement, reseeding, etc. AECOM/Solutia should schedule this.
- A. Day discussed with GRP the finalization of the pad and sloped edges. This is to assure there is 5 feet of pad on the west, east and south sides of the metering house once it is set as well as the max 2:1 slope on pad edges. Currently they are a foot short on the west side of the future metering house. GRP/Hayden plan to finalize the pad once the metering house is set (tentatively planned for Monday 11/28).

Photographs:

1. Looking east during trench backfill
2. Looking north at 3' walkway installation

A.Day offsite at 3:30 pm

Signed by:

A handwritten signature in blue ink, appearing to be 'A. Day', written over a light blue grid background.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc.

Weather: rainy, 50s

Report No.: 019

Date: 11/28/16

Progress of work:

Oversight Activities: A. Day onsite to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 fitters (Teddy Miller, Travis Crocker) 1 Hayden (Dave Hirschl). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was weather safety.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- GRP and Hayden placed metering house on pad using a lull.

Equipment:

- Doosan Excavator (offsite today)
- Office Trailer/Conex
- 2 port-o-potties w/ 2 sinks
- Hayden Work Truck
- GRP Work Truck
- Plate tamper
- Case Skidsteer (offsite today)
- Roller (Small – offsite today)

Materials:

- Various metal pipe fittings
- 3 EPG stand alone, NEMA 4x non metallic enclosure, pump start/stop relay
- 1 EPG autodialer
- 3 start winding controls
- 3 EPG transducer mounts
- 3 LT05X125P level sensors
- 3 badger 2.5” M-2000 flowmeters

Dumpsters: Rolloff Box #20411, #20856, #20474, #20957, #20500, #20186, #20923, #20874, #20137

Notes and Discussions:

- GRP clarified they have ordered the PLC panel and the issue lies with the supplier.

AECOM

- After placing the shed. AECOM and GRP discussed it was slightly out of level. GRP will deal with back left corner to get the shed level.
- GRP and Hayden worked half day due to rainout.

Photographs:

1. Looking north at shed placement.

A.Day offsite at 11:30 am

GRP Offsite 11:10 am

Signed by:

A handwritten signature in blue ink, appearing to be 'M. D.', is written over a faint horizontal line.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Report No.: 020

Contractor: GRP, Inc.

Date: 11/29/16

Weather: Sunny, 60s

Progress of work:

Oversight Activities: A. Day onsite to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 fitters (Teddy Miller, Travis Crocker), 2 GRP carpenters (briefly), 2 Lowry Electricians (briefly). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was train safety.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- GRP installed limited section so piping in the metering house (3- 1.5” valves installed, 2 – 4” 45 degree elbows installed)
- GRP leveled the metering house

Equipment:

- Office Trailer/Conex
- 2 port-o-potties w/ 2 sinks
- Hayden Work Truck
- GRP Work Truck
- Plate tamper

Materials:

- Various metal pipe fittings
- 3 EPG stand alone, NEMA 4x non metallic enclosure, pump start/stop relay
- 1 EPG autodialer
- 3 start winding controls
- 3 EPG transducer mounts
- 3 LT05X125P level sensors
- 3 badger 1.5” M-2000 flowmeters

Dumpsters: Rolloff Box #20411, #20856, #20474, #20957, #20500, #20186, #20923, #20874, #20137

Notes and Discussions:

- A. Day discussed with Tim Grove of GRP that the badger meter manufacturer should be able to send out a representative during install to confirm calibration.

AECOM

- A. Day discussed the possibility of leaving some slack in the electrical lines near the pumps to help to avoid “rework” when the elevations of the landfill slopes are increased during additional landfill work in the future. Electricians were fine with this.
- A. Day discussed pipe stands with GRP. Pipe stands proposed by GRP will work. If stability is an issue, the stands will need to be bolted to the floor.
- GRP is unable to give a definitive answer on why the main PLC panel was not received. It appears communications between EPG and GRP were lacking.
- GRP’s pipe threader failed at 9am. The unit was not replaced until 2:30 pm. The day was not productive because of this.
- A. Day discussed with GRP the need for several pieces to come together for the final connection at the wells – Transducers will need to be mounted/powered/set, pumps will need to be powered, and final piping connections will need to be made. This will all need to coincide with AECOM replacing pump wiring and piping. AECOM/GRP will need to plan ahead to make sure this all falls together.
- A. Day and N. McNurlen prepared pump piping for install (welded fittings for pump/piping connection)
- A. Day discussed that GRP should provide a set of annotated design drawings as a final as-built for the installation.

Photographs:

1. Looking inside at piping progress.

A. Day offsite at 3:30 pm

GRP Offsite 3:30pm

Signed by:

A handwritten signature in blue ink, appearing to be 'N. McNurlen', written over a light blue horizontal line.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Report No.: 021

Contractor: GRP, Inc.

Date: 11/30/16

Weather: Sunny, 50s

Progress of work:

Oversight Activities: A.Day onsite to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 fitters (Teddy Miller, Travis Crocker), 2 Lowry Electricians (Andy McPherson). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was frosty conditions.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- GRP installed limited sections of piping in the metering house and one electronic flow meter
- Lowry was onsite to install disconnects and junction boxes near the pumps (they pulled up as I was leaving, I will edit this once evaluate progress tomorrow)

Equipment:

- Office Trailer/Conex
- 2 port-o-potties w/ 2 sinks
- Hayden Work Truck
- GRP Work Truck
- Plate tamper

Materials:

- Various metal pipe fittings
- 3 EPG stand alone, NEMA 4x non metallic enclosure, pump start/stop relay
- 1 EPG autodialer
- 3 start winding controls
- 3 EPG transducer mounts
- 3 LT05X125P level sensors
- 3 badger 1.5" M-2000 flowmeters

Dumpsters: Rolloff Box #20411, #20856, #20474, #20957, #20500, #20186, #20923, #20874, #20137

Notes and Discussions:

AECOM

- A. Day discussed with Tim Grove of GRP that the 2" tee for the hose fitting on the 2" line in the metering house is designed to accept sink drainage. The tee should be installed at an applicable height.
- GRP continued to have issues with the new pipe-threader. They appeared to be working at <50% efficiency due to this problem.

Photographs:

1. Looking inside metering house at piping progress.

A.Day offsite at 11:30 am

Signed by:

A handwritten signature in blue ink, appearing to be 'A. Day', written over a light blue horizontal line.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc.

Weather: Sunny, 50s

Report No.: 022

Date: 12/01/16

Progress of work:

Oversight Activities: A. Day onsite to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 fitters (Teddy Miller, Travis Crocker). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was situational awareness.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- GRP completed horizontal section of piping for capillary line and continued with secondary and primary lines
- GRP installed remaining 2 badger flowmeters

Equipment:

- Office Trailer/Conex
- 2 port-o-potties w/ 2 sinks
- Hayden Work Truck
- GRP Work Truck

Materials:

- Various metal pipe fittings
- 3 EPG stand alone, NEMA 4x non metallic enclosure, pump start/stop relay
- 1 EPG autodialer
- 3 start winding controls
- 3 EPG transducer mounts
- 3 LT05X125P level sensors
- 3 badger 1.5" M-2000 flowmeters

Dumpsters: Rolloff Box #20411, #20856, #20474, #20957, #20500, #20186, #20923, #20874, #20137

Notes and Discussions:

- GRP was more successful with pipe-threader today and it worked as intended.
- The pipe threader rental company (United Rentals) was onsite yesterday for ~3hrs working with the machine. This led to similar downtime for GRP.

AECOM

- A. Day noted some oil dripping from the pipe threader. A. Day let GRP know they needed to clean this up and prevent the problem from reoccurring.

Photographs:

1. Looking inside metering house at piping progress (beginning of day)
2. Looking inside metering house at piping progress (midday)

A.Day offsite at 11:30 am

Signed by:

A handwritten signature in blue ink, appearing to be 'M. Day', written over a horizontal line.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc.

Weather: Sunny, 40s

Report No.: 023

Date: 12/02/16

Progress of work:

Oversight Activities: A. Day onsite to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 fitters (Teddy Miller, Travis Crocker), 2 Electricians (Andy M.). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was frosty vehicle windows in AM.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- GRP continued with horizontal section of piping for primary and secondary lines inside metering house.
- Lowry electric installed disconnections, junction boxes, weatherproof outlet, and conduit near the pumps.

Equipment:

- Office Trailer/Conex
- 2 port-o-potties w/ 2 sinks
- Hayden Work Truck
- GRP Work Truck

Materials:

- Various metal pipe fittings
- 3 EPG stand alone, NEMA 4x non metallic enclosure, pump start/stop relay
- 1 EPG autodialer
- 3 start winding controls
- 3 EPG transducer mounts
- 3 LT05X125P level sensors
- 3 badger 1.5" M-2000 flowmeters

Dumpsters: Rolloff Box #20411, #20856, #20474, #20957, #20500, #20186, #20923, #20874, #20137

Notes and Discussions:

- GRP did not have the proper length of 1.5" straight pipe before and after the Badger flow meters. They removed and reinstalled to proper lengths.

AECOM

- Jeff Hasty of GRP, Dave Lowry and Andy Day of AECOM, and Steve Smith of Solutia all met regarding the electrical controls situation. The controls have been significantly delayed. GRP will finish the mechanical portions of the scope and likely shut the job down until controls are ready. Hayden will also need to finish their scope so the fencing contractor can accomplish their work.
- GRP should install either temporary chainlink fence, or the scoped permanent fence, before shutting the job down due to the delay.

Photographs:

1. Looking inside metering house at piping progress (beginning of day)
2. Looking inside metering house at piping progress (midday)
3. Looking at electrical progress near the pumps

A.Day offsite at 11:30 am

Signed by:

A handwritten signature in blue ink, appearing to be 'A. Day', written over a light blue grid background.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc.

Weather: Sunny, 40s

Report No.: 024

Date: 12/05/16

Progress of work:

Oversight Activities: A. Day onsite to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 fitters (Teddy Miller, Travis Crocker – ½ day), 2 Electricians (Andy McPherson and Matt Brand). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was snowy weather.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- GRP continued with horizontal and vertical sections of piping for primary, secondary, and capillary lines inside metering house.

Equipment:

- Office Trailer/Conex
- 2 port-o-potties w/ 2 sinks
- Hayden Work Truck
- GRP Work Truck

Materials:

- Various metal pipe fittings
- 3 EPG stand alone, NEMA 4x non metallic enclosure, pump start/stop relay
- 1 EPG autodialer
- 3 start winding controls
- 3 EPG transducer mounts
- 3 LT05X125P level sensors
- 3 badger 1.5" M-2000 flowmeters

Dumpsters: Rolloff Box #20411, #20856, #20474, #20957, #20500, #20186, #20923, #20874, #20137

Notes and Discussions:

- A. Day inspected the primary, secondary and capillary piping inside the metering house (minus the portions going through the roof as they are not completed. A. Day noted 2 small items with GRP:
 - 1. Piping length above flowmeter on capillary line still not quite 4.5". Needs to be extended.

AECOM

- 2. Secondary line does not appear level. Should be leveled.
- GRP should install either temporary chainlink fence, or the scoped permanent fence, before shutting the job down due to the delay.

Photographs:

1. Looking at conduit runs to/from pumps
2. Looking at disconnects and junction boxes at pumps
3. Looking inside metering house at piping progress (midday)
4. Looking inside metering house at piping progress (midday)

A.Day offsite at 12:00pm

Signed by:

A handwritten signature in blue ink, consisting of stylized, overlapping loops and a long horizontal stroke extending to the right.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc.

Weather: Cloudy, 50s

Report No.: 025

Date: 02/01/17

Progress of work:

Oversight Activities: A. Day onsite to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 electricians (Andy McPherson and Ryan Harres). Ralph Lichenbrock and Chris Hurley onsite for 30 minutes in the morning. A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was electrical safety.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Lowry inventoried and read up on EPG componets.
- Lowry planned out installation locations for panels.
- Lowry began installing plywood for panel hookups.

Equipment:

- Office Trailer/Conex
- 2 port-o-potties.
- GRP Work Truck
- Pipe Bender

Materials:

- Various EPG components

Notes and Discussions:

- A. Day discussed EPG components with GRP and Lowry. These parts appear to be different than stated on the plans. Lowry is to go through all the equipment and confirm scope can be met with current components. Also, Lowry will need to plan out installation locations for all panels.

Photographs:

1. None

A. Day offsite at 8:30 am

Signed by:



AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc.

Weather: Cloudy, 30s

Report No.: 026

Date: 02/02/17

Progress of work:

Oversight Activities: A. Day onsite to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 electricians (Andy McPherson and Ryan Harres). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was vehicle safety.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Lowry continued mouting panels and preparing for power hookup
- Lowry spoke with GRP/EPG about component installation

Equipment:

- Office Trailer/Conex
- 2 port-o-potties.
- GRP Work Truck
- Pipe Bender

Materials:

- Various EPG components

Notes and Discussions:

- A. Day informed Lowry current panel placement was not ideal due to spacing.
- A. Day suggested to GRP/Lowry that a call to EPG would probably be a good idea. A call was scheduled for 2pm on 2/2 and again for 830am on 2/3.
- A. Day and D. Lowry will be onsite on 2/3 first thing in the morning.

Photographs:

1. None

A. Day offsite at 8:30 am

Signed by:



AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc.

Weather: Cloudy, 30s

Report No.: 027

Date: 02/03/17

Progress of work:

Oversight Activities: A. Day onsite to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 electricians (Andy McPherson and Ryan Harres). Ralph Lichenbrock and Chris Hurley onsite for 1 hour. Dave Lowry (AECOM) onsite at for 30 minutes in the morning. A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am. Safety topic was vehicle safety.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Lowry continued mounting panels and preparing for power hookup
- Lowry began running conduit inside the metering house
- GRP completed pipe vent installation (2/2)

Equipment:

- Office Trailer/Conex
- 2 port-o-potties.
- GRP Work Truck
- Pipe Bender

Materials:

- Various EPG components

Notes and Discussions:

- A. Day
 1. Looking at Dialer, transducer (3) and flow control (3) panels
 2. Looking at main control panel (PLC)
 3. Looking at transformer
 4. Looking at pipe vent valves
- **Photographs:**
 1. D. Lowry and A. Day (AECOM) had phone call with GRP (Tim Grove and Jeff Hasty), Lowry Electric (Ralph Lichenbrock and Chris Hurley), and EPG (Ron). EPG assured Lowry/GRP that with some reprogramming of the PLC the proper alarms would be achieved. Lowry stated the

AECOM

motor starters provided by EPG were incorrect, but could be supplemented with onsite equipment. Lowry agreed to install run/fail lights on the newly provided motor starters. EPG to provide updated programming and manual for transducers.

A.Day offsite at 10:15 am

Signed by:

A handwritten signature in blue ink, appearing to be 'M. J. D.', is written over a faint horizontal line.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc.

Weather: Cloudy, 50s

Report No.: 028

Date: 02/04/17

Progress of work:

Oversight Activities: A.Day onsite (1-1:45pm) to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 electricians (Andy McPherson and Ryan Harres). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Lowry continued mounting panels, conduit, and preparing for power hookup
- Lowry mounted 3 motor starters

Equipment:

- Office Trailer/Conex
- 2 port-o-potties.
- GRP Work Truck
- Pipe Bender

Materials:

- Various EPG components

Notes and Discussions:

- A. Day
 1. Looking motor starter mounting
- **Photographs:**
 1. Lowry estimated to make power hookup on WED.

A.Day offsite at 1:45 pm

Signed by:



AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Report No.: 029

Contractor: GRP, Inc.

Date: 02/04/17

Weather: Cloudy, 50s

Progress of work:

Oversight Activities: A.Day onsite (10-1045am) to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 electricians (Andy McPherson and Ryan Harres). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Lowry continued mounting panels, conduit, and preparing for power hookup
- Lowry installed junction box at existing electrical box

Equipment:

- Office Trailer/Conex
- 2 port-o-potties.
- GRP Work Truck
- Pipe Bender

Materials:

- Various EPG components

Notes and Discussions:

- A. Day
 1. Looking at pump motor starters
- **Photographs:**
 1. Lowry estimated to make power hookup on Thursday due to a parts delay.
 2. A. Day spoke with Steve Smith about labelling of metering house components, testing that alarms and flow lines are correct, and meeting with local POTW before system startup.
 3. A. Day reiterated to GRP and Lowry that when they are ready for the pump hookup, AECOM should be able to perform the work within 1-3 days. AECOM will attempt to perform the work the day Lowry is ready.

A.Day offsite at 10:45am

AECOM

Signed by:

A handwritten signature in blue ink, appearing to be 'M. J. D.', is written over a faint horizontal line. The signature is fluid and cursive, with a long horizontal stroke extending to the right.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Report No.: 030

Contractor: GRP, Inc.

Date: 02/06/17

Weather: Cloudy, 50s

Progress of work:

Oversight Activities: A.Day onsite (10-1045am) to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 electricians (Andy McPherson and Ryan Harres). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Lowry continued mounting panels, conduit, and preparing for power hookup

Equipment:

- Office Trailer/Conex
- 2 port-o-potties.
- GRP Work Truck
- Pipe Bender

Materials:

- Various EPG components

Notes and Discussions:

- Lowry estimated to make power hookup on Thursday due to a parts delay.
- A. Day spoke with Steve Smith about labelling of metering house components, testing that alarms and flow lines are correct, and meeting with local POTW before system startup.
- A. Day reiterated to GRP and Lowry that when they are ready for the pump hookup, AECOM should be able to perform the work within 1-3 days. AECOM will attempt to perform the work the day Lowry is ready.

- **Photographs:**

001 - Looking at pump motor starters

A.Day offsite at 10:45am

AECOM

Signed by:

A handwritten signature in blue ink, appearing to be 'M. J. D.', is written over a faint horizontal line. The signature is fluid and cursive, with a long horizontal stroke extending to the right.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc.

Weather: Cloudy, 50s

Report No.: 031

Date: 02/07/17

Progress of work:

Oversight Activities: A. Day onsite (1-1:45pm) to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 electricians (Andy McPherson and Ryan Harres). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Lowry continued mounting panels, conduit, and preparing for power hookup
- Lowry mounted 3 motor starters

Equipment:

- Office Trailer/Conex
- 2 port-o-potties.
- GRP Work Truck
- Pipe Bender

Materials:

- Various EPG components

Notes and Discussions:

- Lowry estimated to make power hookup on WED.

Photographs:

1. Looking motor starter mounting

A. Day offsite at 1:45 pm

Signed by:



AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc.

Weather: Cloudy, 30s

Report No.: 032

Date: 02/09/17

Progress of work:

Oversight Activities: A. Day onsite (1-1:45pm) to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 electricians (Andy McPherson and Ryan Harres). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Lowry continued mounting panels, conduit, and preparing for power hookup
- Lowry installed light fixture

Equipment:

- Office Trailer/Conex
- 2 port-o-potties.
- GRP Work Truck
- Pipe Bender

Materials:

- Various EPG components

Notes and Discussions:

- A. Day set a date with Lowry/GRP of 2/16 and 2/17 for the pump connections and testing.

Photographs:

NA

A. Day offsite at 1:45 pm

Signed by:



AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Report No.: 033

Contractor: GRP, Inc.

Date: 02/10/17

Weather: 60s, cloudy

Progress of work:

Oversight Activities: A. Day onsite (8-9am) to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 electricians (Andy McPherson and Ryan Harres). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Lowry continued mounting panels and conduit
- Lowry completed power hookup
- Lowry installed exit sign

Equipment:

- Office Trailer/Conex
- 2 port-o-potties.
- GRP Work Truck
- Pipe Bender

Materials:

- Various EPG components

Notes and Discussions:

- A. Day with GRP the need to address power alarm and low temp alarm, the need to make sure EPG provides whatever Lowry needs to make all control logic work – I suggested a drawing showing changes to panel and anything else they want/need.
- A. Day informed GRP the POTW Meeting is at 9am on Thursday next week.

- **Photographs:**

1. Looking at mounted panels and control wiring conduit
2. Light fixture and exit sign hookup
3. Motor starters assembled

A. Day offsite at 9am

AECOM

Signed by:

A handwritten signature in blue ink, appearing to be 'M. J. D.', is written over a faint horizontal line.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Report No.: 034

Contractor: GRP, Inc.

Date: 02/14/17

Weather: 50s, cloudy

Progress of work:

Oversight Activities: A.Day onsite (1pm) to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 electricians (Andy McPherson and Ryan Harres). A. Day provided construction oversight.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Lowry finished installing lighting
- Lowry continued with control wiring

Equipment:

- Office Trailer/Conex
- 2 port-o-potties.
- GRP Work Truck
- Pipe Bender

Materials:

- Various EPG components

Notes and Discussions:

- A. Day spoke with Tim Grove about making sure the “low flow” condition would cause a pump shutdown. He will clarify with EPG.

- **Photographs:**
 - NA

A.Day offsite at 1pm

Signed by:



AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Report No.: 035

Contractor: GRP, Inc.

Date: 02/16/17

Weather: 60s, cloudy

Progress of work:

Oversight Activities: A. Day to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 electricians (Andy McPherson and Ryan Harres). A. Day provided construction oversight. A. Day, N. McNurlen, and B. Richter onsite to install pump wiring, transducers, and set pumps at proper levels.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Lowry completed pulling transducer wiring.
- Lowry completed first run at control wiring.
- AECOM installed secondary and capillary pumps
 - Installed new wiring
 - Installed new pump tubing
 - Installed transducers with mounts

Equipment:

- Office Trailer/Conex
- 2 port-o-potties.
- GRP Work Truck
- Pipe Bender

Materials:

- Various EPG components

Notes and Discussions:

- Lowry identified dialer was not cellular. GRP purchased AT&T cellular modem to convert the unit to cellular.
- Steve Smith and Bill Johnson (Solutia) onsite for meeting with American Bottoms. A. Day of AECOM explained system flow diagram to American Bottoms staff. Plan will be for Solutia to inform American Bottoms of when the system starts so samples can be collected.

- **Photographs:**

AECOM

A.Day offsite at noon. N. McNurlen and B. Richter offsite at 4pm.

Signed by:

A handwritten signature in blue ink, appearing to be "N. McNurlen", written over a faint horizontal line.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Report No.: 036

Contractor: GRP, Inc.

Date: 02/17/17

Weather: 60s, cloudy

Progress of work:

Oversight Activities: A. Day to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 2 electricians (Andy McPherson and Ryan Harres) onsite late morning. A. Day provided construction oversight. A. Day, N. McNurlen, and B. Richter onsite to install pump wiring, transducers, and set pumps at proper levels.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Lowry provided power to all 3 pumps.
- AECOM installed primary pump
 - Installed new wiring
 - Installed new pump tubing
 - Installed transducers with mounts
- AECOM welded final connections for pump tubing to system piping for all three pumps.
- AECOM tested transducers, flow meters, and pumps.
- AECOM setup cellular modem.

Equipment:

- Office Trailer/Conex
- 2 port-o-potties.
- GRP Work Truck
- Pipe Bender

Materials:

- Various EPG components

Notes and Discussions:

- A. Day identified PLC did not appear to be communicating correctly with pumps, transducers, leak detection meter, or flow meters. A. Day suggested to Tim Grove to have field electricians from Lowry talk to EPG to sort out the problems. AECOM could not test majority of “automatic” functions and alarms due to this problem.
- A. Day dialer does not appear to be setup fully. A. Day will discuss with GRP.

AECOM

- **Photographs:**
 - NA

A.Day and N. McNurlen offsite at 2pm. B. Richter offsite at noon.

Signed by:

A handwritten signature in blue ink, appearing to be 'N. McNurlen', written over a faint horizontal line.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:**AECOM Personnel:** A. Day**Report No.:** 037**Contractor:** GRP, Inc.**Date:** 03/06/17**Weather:** 60s, cloudy**Progress of work:**

Oversight Activities: A. Day to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 1 electrician (Andy McPherson) onsite late morning. A. Day provided construction oversight. A. Day onsite to help with troubleshooting.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Lowry and GRP continued troubleshooting EPG electrical components
 - It appears the primary transducer display and circuit board for one of the flow meter displays need to be replaced
- AECOM fixed secondary pump issue. Pump bands were too tight from the factory and required loosening before operation.

Equipment:

- Office Trailer/Conex
- 2 port-o-potties.
- GRP Work Truck

Materials:

- Various EPG components

Notes and Discussions:

- A. Day suggested to GRP that once all parts are replaced and operational, that A. Day, Lowry, and EPG all have an onsite call to test the system and fix problems on the spot.
- A. Day suggested having Badger Rep. onsite to confirm install of Badger M-2000 flow meters.
- **Photographs:**
 - NA

A. Day onsite 10am to 2pm.

Signed by:

AECOM

A handwritten signature in blue ink, appearing to be 'M. D.', written on a white background.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc.

Weather: 30s, cloudy

Report No.: 038

Date: 03/13/17

Progress of work:

Oversight Activities: None

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- None

Equipment:

- Office Trailer/Conex
- 2 port-o-potties.
- GRP Work Truck

Materials:

- Various EPG components

Notes and Discussions:

- A. Day tested capillary pump only (too much snow on cap to test others)
- A. Day noted when the capillary pump failure alarm triggered; it did not shut off the pump.
- A. Day also noted a snapping noise at the pump – later determined this was just the pipe moving due to slight water hammer.
- **Photographs:**
 - NA

A. Day and B. Richter offsite at 10am.

Signed by:



AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Report No.: 039

Contractor: GRP, Inc.

Date: 03/17/17

Weather: 60s, cloudy

Progress of work:

Oversight Activities: A.Day to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 1 electrician (Andy McPherson) onsite late morning. A. Day provided construction oversight. A. Day onsite to help with troubleshooting.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 7:00am.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Lowry and GRP continued troubleshooting EPG electrical components

Equipment:

- Office Trailer/Conex
- 2 port-o-potties.
- GRP Work Truck

Materials:

- Various EPG components

Notes and Discussions:

- A. Day noted the following items with the system
 - Leak detection sensor is not operating properly AND is not wired to send a shutdown signal to the pumps
 - “No flow” condition causes an alarm but does not shut down the pumps.
 - “Pump dry condition causes an alarm but does not shut down the pumps.
 - Strange PLC programming issue noted when only PLC was shutoff and restarted. It appears all system components must be shutoff and restarted.
 - Transducer fail – This causes the pump to shut off, but does not send out an alarm.
- **Photographs:**
 - NA

A.Day offsite at 11am.

Signed by:

AECOM

A handwritten signature in blue ink, appearing to be 'M. J. D.', is written on a white background.

AECOM

Daily Field Report

Leachate Management System Installation and Piping Connection to the POTW

Project No.:

AECOM Personnel: A. Day

Contractor: GRP, Inc.

Weather: 70s, sunny

Report No.: 040

Date: 04/7/17

Progress of work:

Oversight Activities: A. Day to provide oversight of work at Solutia site for the project Leachate Management System Installation and Piping Connection to POTW. GRP – Site Super (Tim Grove), 1 electrician (Andy McPherson) onsite. A. Day provided construction oversight. A. Day onsite to help with troubleshooting.

Health and Safety:

- GRP personnel conducted the morning safety/tailgate meeting at 8:00am.

Stormwater Pollution Prevention Activities: None.

Construction Activities:

- Lowry and GRP continued troubleshooting EPG electrical components – installed 4-20ma relays.

Equipment:

- 2 port-o-potties.
- GRP Work Truck

Materials:

- Various EPG components

Notes and Discussions:

- A. Day noted the 4-20ma relays were not operational by end of day.
- A. Day noted the program was not reinstalled as EPG was not available to do the work. They had not been scheduled in advance.
- **Photographs:**
 - NA

A. Day offsite at 10am.

Signed by:



Client Name: Solutia

Site Location: Judith Lane

Project No.
60514419Photo No.
1Date:
10/31/16**Description:**

Looking south.
Excavated soil on
plastic ready to be
covered.

Photo No.
2Date:
10/31/16**Description:**

Looking north.
Fenced off open
trench.



Client Name: Solutia

Site Location: Judith Lane

Project No.
60514419Photo No.
3Date:
11/1/16**Description:**

Looking north.
Additional fencing
removed.

Photo No.
4Date:
11/1/16**Description:**

Debris encountered
in trench.



Client Name: Solutia

Site Location: Judith Lane

Project No.
60514419

Photo No.
5

Date:
11/7/16

Description:

Looking west. Open trench for piping.



Photo No.
6

Date:
11/8/16

Description:

Looking north.
Open trench for
electrical.



Client Name: Solutia

Site Location: Judith Lane

Project No.
60514419Photo No.
7Date:
11/9/16**Description:**

Pipe rack at future
metering house
location.

Photo No.
8Date:
11/14/16**Description:**

Looking south.
HDPE piping (4"
and 2" lines) in
trench with sand
bedding layer.



Client Name: Solutia

Site Location: Judith Lane

Project No.
60514419Photo No.
9Date:
11/17/16**Description:**

Looking west.
HDPE lines (1.5")
running to landfill
pumps.

Photo No.
10Date:
11/18/16**Description:**

Looking west. Sand
bedding layer with
buried yellow
caution tape.



Client Name: Solutia

Site Location: Judith Lane

Project No.
60514419Photo No.
11Date:
11/21/16**Description:**

Looking north.
Backfilled and
graded parking lot
area.

Photo No.
12Date:
11/21/16**Description:**

Looking east.
Backfilled and
graded area along
Queeny Ave.



Client Name: Solutia

Site Location: Judith Lane

Project No.
60514419

Photo No.
13

Date:
11/21/16

Description:

Pipe stickups at
landfill connection.



Photo No.
14

Date:
11/21/16

Description:

2" and 4"
connection and
entrance to
manhole at Queeny
Ave.



Client Name: Solutia

Site Location: Judith Lane

Project No.
60514419Photo No.
15Date:
11/22/16**Description:**

Looking north.
Geofabric placed
for gravel pad.

Photo No.
16Date:
11/28/16**Description:**

Looking north.
Metering house
shed placed.



Client Name: Solutia

Site Location: Judith Lane

Project No.
60514419

Photo No.
17

Date:
11/23/16

Description:

Looking south.
Culvert installation.



Photo No.
18

Date:
12/5/16

Description:

Metering house
piping installed.



Client Name: Solutia

Site Location: Judith Lane

Project No.
60514419Photo No.
19Date:
2/3/17**Description:**

Transducer,
flowmeter, and
dialer panels
moulder.

Photo No.
20Date:
6/30/17**Description:**

UPC installed.



Client Name: Solutia

Site Location: Judith Lane

Project No.
60514419

Photo No.
21

Date:
6/30/17

Description:

Functioning dialer,
flowmeter displays,
and transducer
displays.



Photo No.
22

Date:
6/30/17

Description:

Functioning PLC
panel.

